Hake MSE – DRAFT objectives and performance metrics from JMC call in Dec 2018

JMC/MSEWG meeting

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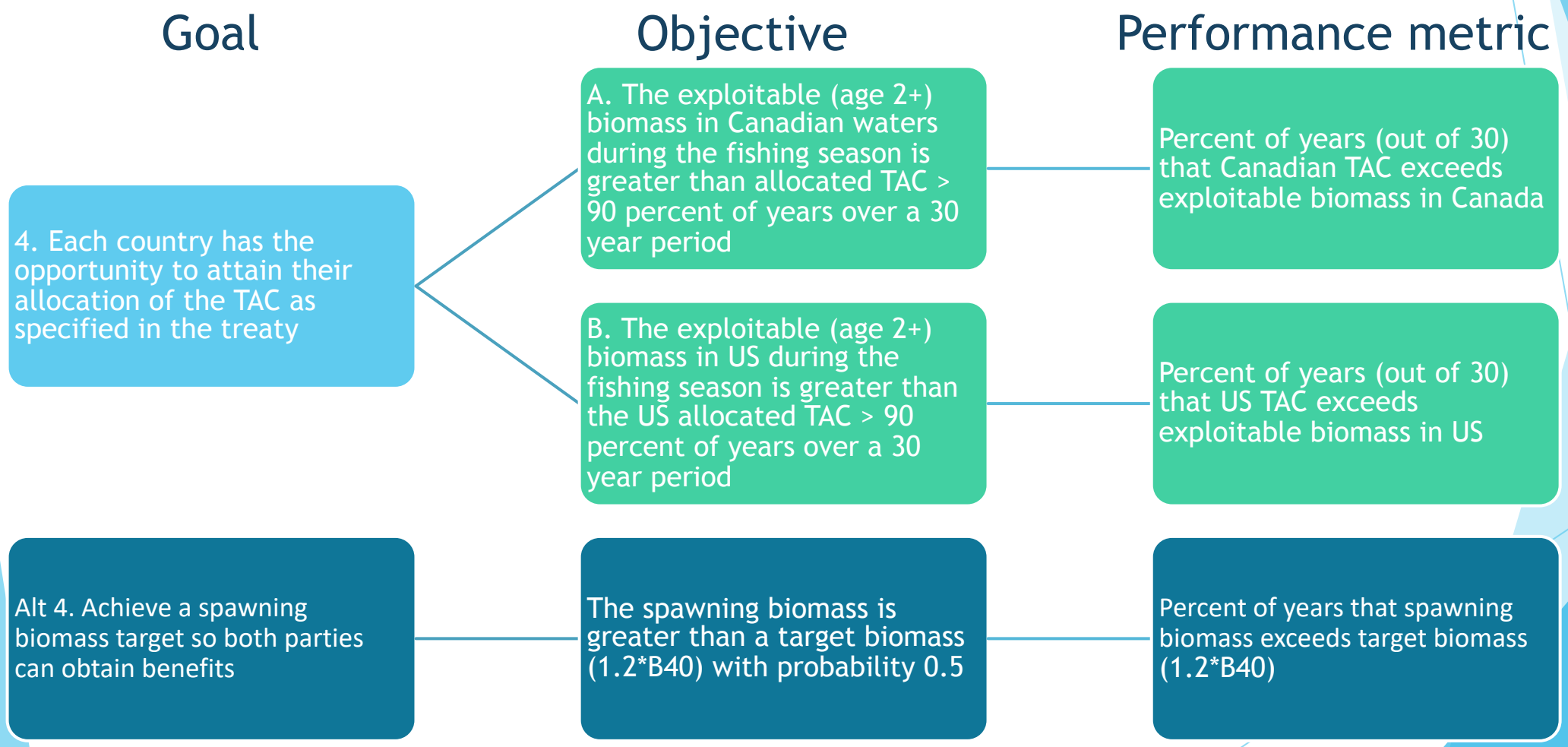
Kristin Marshall – NOAA NWFSC MSE Coordinator

With contributions from Aaron Berger, Nis Jacobsen, Ian Taylor

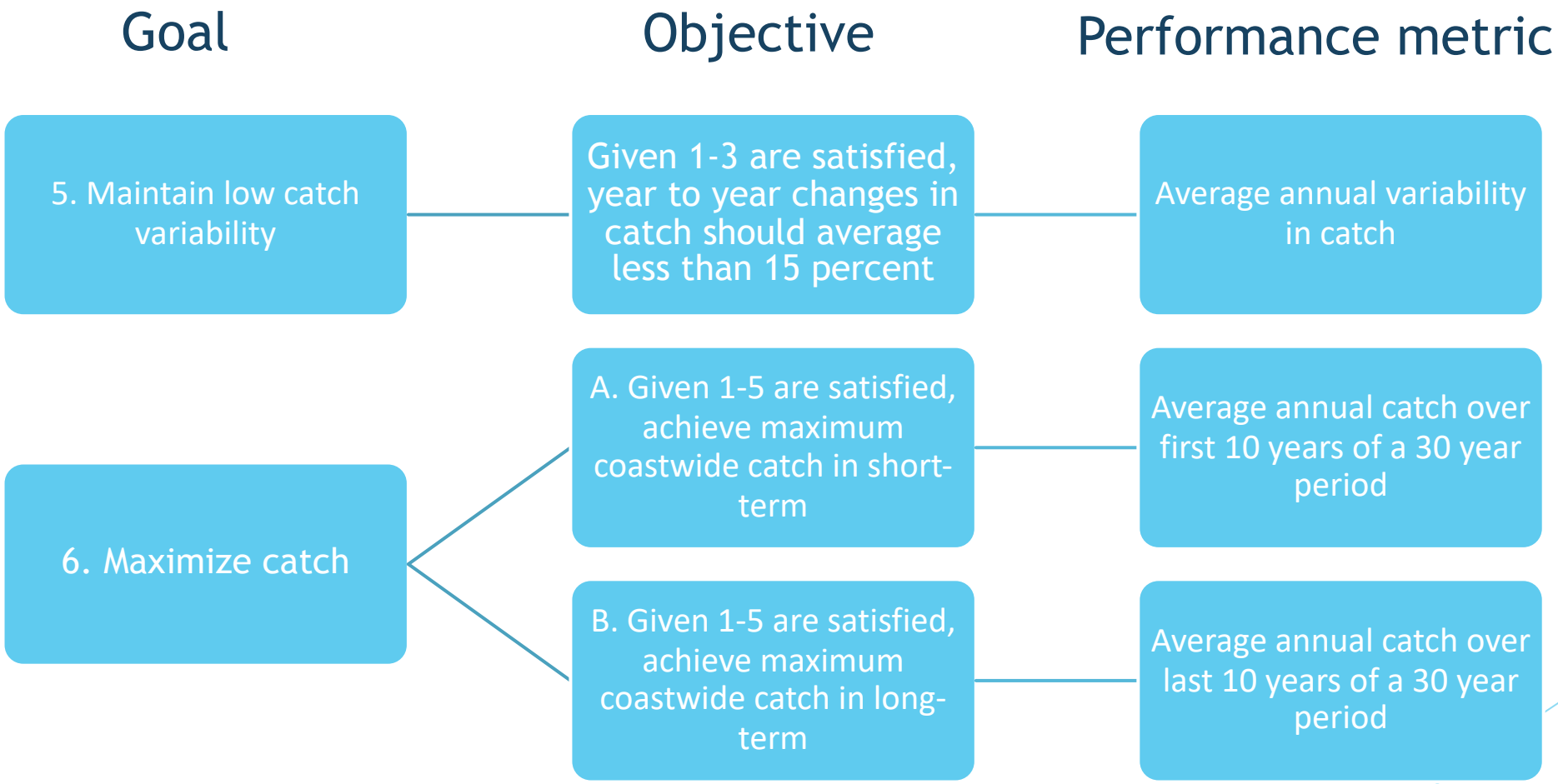
Manage the Pacific hake resource in a precautionary and sustainable manner

Goal	Objective	Performance metric
1. Minimize risk of overfishing and closing the fishery	Spawning biomass is above 10 percent of unfished biomass in 95 percent of the years over a 30 year period	Percent of years (out of 30) that coastwide spawning biomass is above 10 percent of unfished biomass
2. Maintain biomass above a threshold that triggers a reduction in harvest rate a high percentage of the time	Spawning biomass is above 40 percent of unfished biomass in 75 percent of the years over a 30 year period	Percent of years (out of 30) that coastwide spawning biomass is above 40 percent of unfished biomass
3. If biomass drops below a threshold that triggers a reduction in harvest rate, return biomass to above the threshold within 3 years with high probability	If spawning biomass drops below 40 percent of unfished biomass, the probability that it exceeds the threshold within 3 years is greater than 90 percent	Percent of instances that coastwide spawning biomass drops below 40 percent of unfished biomass and recovers wtihin 3 years
Alt 3. Avoid closing the fishery	Fishery is open in both CA and US in 95 percent of the years over a 30 year period	Percent of years that the fisheries in the US and CA are both open

Both parties can receive their intended benefits under the treaty



Yield Objectives



What do draft metrics look like in draft simulations?